



## Gas Chromatography Analysis

Dear Customer,

Attached you will find the results of gas chromatographic analysis based on the information provided by our Producer/Laboratory for:

**Sample Reference**                      1468

We testify that the Chromatographic Analysis (GC) for the mentioned sample is identical with:

**Product Name:**                      Spruce (White Spruce) organic

**Botanical Name:**                      Picea glauca

**Batch No.:**                              1030387

Bühl, 28.04.2023

Tr	N° CAS	Composés	% Fid
9.11	888-16-8	Santène	0.196
10.63	508-32-7	Tricyclène	0.542
10.75	2867-05-2	Alpha Thujène	0.099
11.11	80-56-8	Alpha-Pinène	22.610
11.63	471-84-1	Fenchène	0.063
11.72	79-92-5	Camphène	7.823
11.84	36262-09-6	Thuja-2,4(10)-diène	0.048
12.53	3387-41-5	Sabinène	0.148
12.80	127-91-3	Béta-Pinène	23.737
13.11	123-35-3	Myrcène	5.090
13.75	99-83-2	Alpha-Phellandrène	0.191
13.81	13466-78-9	Delta-3-Carène	3.105
14.11	99-86-5	Alpha-Terpinène	0.130
14.43	99-87-6	Para-Cymène	0.493
14.60	138-86-3	Limonène	10.737
14.67	555-10-2	Béta-Phellandrène	2.781
14.72	470-82-6	Eucalyptol	0.472
15.55	99-85-4	Gamma-Terpinène	0.236
16.46	586-62-9	Terpinolène	0.765
16.71	1195-32-0+1195-79-5	Para-Cyménène + Fenchone	0.151
16.96	78-70-6	Linalol	0.090
17.72	14575-74-7	Endo-Fenchol	0.102
17.96	4501-58-0	Alpha-Campholénal	0.027
18.45	29606-76-6	Trans-Sabinol	0.205
18.73	76-22-2	Camphre	6.687

Tr	N° CAS	Composés	% Fid
18.92	64474-11-9	Hydrate de Camphène	0.190
19.08	547-60-4	Trans-Pinocamphone	0.034
19.15	16812-40-1	Pinocarvone	0.028
19.16	124-76-5	Isobornéol	0.027
19.45	507-70-0	Bornéol	0.772
19.65	562-74-3	Terpinène-4-ol	0.463
20.12	98-55-5	Alpha-Terpinéol	1.250
20.19	564-94-3	Myrténal	0.158
20.57	80-57-9	Verbénone	0.029
20.92	106-22-9	Citronellol	0.129
21.01	1076-56-8	Thymol Méthyl-éther	0.084
21.92	89-81-6	Pipéritone	0.293
22.71	76-49-3	Acétate de Bornyle	7.625
22.78	125-12-2	Acétate d'Isobornyle	0.044
24.33	80-26-2	Acétate d'Alpha-Terpinyle	0.041
25.12	105-87-3	Acétate de Géranyle	0.023
25.16	3856-25-5	Alpha-Copaène	0.023
25.50	515-13-9	Béta-Elémène	0.051
26.20	475-20-7	Longifolène	0.249
26.40	87-44-5	Béta-Caryophyllène	0.136
27.03	-	Hydrocarbure sesquiterpénique MW 204	0.035
27.34	6753-98-6	Alpha-Humulène	0.109
27.69	20085-11-4	Trans-Cadina-1(6),4-Diène	0.025
27.77	30021-74-0	Gamma-Muuroolène	0.081
27.98	23986-74-5	Germacrène D	0.012

Tr	N° CAS	Composés	% Fid
28.21	-	Hydrocarbure sesquiterpénique MW 204	0.034
28.29	-	Hydrocarbure sesquiterpénique MW 204	0.025
28.36	31983-22-9	Alpha-Muuroolène	0.126
28.76	39029-41-9	Gamma-Cadinène	0.146
28.83	483-76-1	Delta-Cadinène	0.404
28.98	72937-55-4	Cis-Calaménène	0.063
29.32	38758-02-0	Trans-Cadina-1,4-diène	0.052
29.49	50277-34-4	Béta-Calacorène	0.013
30.56	1139-30-6	Oxyde de Caryophyllène	0.019
31.56	19912-67-5	1-Epi-Cubénol	0.015
31.89	5937-11-1	Epi-Alpha-Cadinol	0.075
31.94	19912-62-0	Epi-Alpha-Muurolol	0.071
32.21	481-34-5	Alpha-Cadinol	0.109
		Total	99.591

The sample contains no known artificial compound.